UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,720	02/08/2007	Junetsu Urata	2006_1447A	4021
	7590 12/19/200 , LIND & PONACK, I	EXAMINER		
2033 K STREET N. W.			MOTTOLA, STEVEN J	
SUITE 800 WASHINGTON, DC 20006-1021			ART UNIT	PAPER NUMBER
			2817	
			MAIL DATE	DELIVERY MODE
			12/19/2008	PAPER

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/593,720	URATA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Steven J. Mottola	2817			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>31 Oc</u> This action is <b>FINAL</b> . 2b) ☑ This     Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 7-15 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 7-15 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or  Application Papers  9) ☐ The specification is objected to by the Examiner	vn from consideration.  relection requirement.				
10) ☐ The drawing(s) filed on is/are: a) ☐ acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11) ☐ The oath or declaration is objected to by the Ex-	drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). sected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 120408.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

Office Action Summary

Application/Control Number: 10/593,720

Art Unit: 2817

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Page 2

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Stengel et al.

Refer to fig. 4 and col. 7, line 49 to col. 8, line 23 of Stengel et al. A Doherty type amplifier is disclosed formed on a substrate 302 that may be of printed circuit board material and wherein certain sections, such as the output combiner 306 that includes the quarter wavelength line (226 in fig. 2, part of the output combiner) combining the carrier (208 in fig. 2) and peak (210 in fig. 2) amplifier outputs, are formed on a ceramic substrate which would inherently have a greater permittivity and be physically stable against changes in temperature or humidity. Thus the ceramic substrate may be read as the 'first' substrate of the claims and the printed circuit board material substrate 302 as the second substrate claimed. The above treats all of the limitations of the independent claims. Regarding dependent claims 11,13 & 15, as noted above the ceramic substrate of Stengel et al. is read on the physically stable material claimed while the standard FR-4 printed circuit board material mentioned by Stengel et al. is would be a glass epoxy material. While no other reference is relied upon as the Examiner believes this to be commonly assumed in the art, for the applicant's convenience a reference is cited below that equates FR4 PCB material to glass epoxy.

Art Unit: 2817

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Paragraph 39 of Hagiwara equates an FR4 printed circuit board to a glass epoxy material. Pehlke discloses a Doherty type amplifier arrangement and in the paragraph bridging cols. 10-11 describes forming transmission lines on FR4 standard PCB material but using a high dielectric material would shorten the length of quarter wave lines within a hybrid module, implying part of the device would be on a standard FR4 PCB while part would be on a higher dielectric material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven J. Mottola whose telephone number is 571-272-1766. The examiner can normally be reached on M-Th from 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal, can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/593,720

Page 4

Art Unit: 2817

Primary Examiner, Art Unit 2817